

Result No.	Query	Score	Match	Length	DB	ID	Description
1	179	15.8	224	4	US-09-134-001C-4608	Sequence 4608, Appl	Query Match 15.8%; Score 179; DB 4; Length 224;
2	126.5	11.1	205	4	US-09-134-001C-4608	Sequence 2, Appl	Best Local Similarity 23.4%; Pred. No. 3.8e-12;
3	93.5	8.2	153	2	US-08-416-257-7	Sequence 7, Appl	Mismatches 49; Conservatism 51;
4	93.5	8.2	153	6	US-09-134-001C-4608	Patent No. 5474933	Indels 10; Gaps 6;
5	90	7.9	173	4	US-09-134-001C-4608	Sequence 4026, Appl	Qy 14 MDPLHAVYLTVGLFVTFENPGANLFWYVOTSLASGRAGVLTGVALGDAFYSGGFLGF 73
6	82	7.2	206	4	US-09-134-001C-4608	Sequence 3929, Appl	Db 15 MGDL-TFIIITLILIV--P-PDPDFIVMKATINNSRMNGMAAFGTTGIGLYSSIAIF 71
7	81	7.1	222	1	US-07-732-242C-7	Sequence 7, Appl	Qy 74 GLATLITOCEELFLSLIRVGAYLLFAWCS-MRROSTPQNS-TLQQPISAPWYFFRR 130
8	79.5	7.0	525	4	US-09-134-001C-4608	Sequence 8, Appl	Db 72 GLIYILTSFLHFVFLTKILGACYLIVLGKISLSAASSVDSKOAADVRSVSYTTSFRO 131
9	77.5	6.8	498	4	US-09-103-75A-5	Sequence 5, Appl	Qy 131 GLITDLSNPQTFLFFISFSTL--NAETPIWARIWAGAVLSTIWRVLSQAFSLP 187
10	75.5	6.7	348	4	US-09-134-001C-4857	Sequence 4857, Appl	Db 132 GPLTSLNPKALLFYISIPQLSNGNHNMRSEVALEFAF-S-VVVVCLWFECVFIFQYI 190
11	75.5	6.7	617	1	US-09-839-617A-11	Sequence 11, Appl	Qy 188 AVRAYGRMQRVAVSRVIGAIIGVFAARLI 216
12	75.5	6.7	617	1	US-08-701-722A-11	Sequence 3, Appl	Db 191 KLLFSRPRKAIFDYIVGFVLIGLSINLL 219
13	75.5	6.7	617	1	US-08-210-733B-3	Sequence 3, Appl	RESULT 2
14	75.5	6.7	617	1	US-08-253-0985-11	Sequence 11, Appl	US-09-396-157-2
15	75.5	6.7	617	3	US-09-084-813-3	Sequence 3, Appl	Sequence 2, Appl
16	75.5	6.7	617	5	PCN-US92-09662-3	Sequence 3, Appl	Sequence 29, Appl
17	75.5	6.7	620	1	US-08-301-722A-2	Sequence 2, Appl	Sequence 29, Appl
18	74.5	6.6	405	4	US-09-555-984-2	Sequence 2, Appl	Sequence 29, Appl
19	74.5	6.6	619	1	US-08-301-722A-2	Sequence 2, Appl	Sequence 29, Appl
20	74.5	6.6	619	4	US-09-555-922-29	Sequence 2, Appl	Sequence 29, Appl
21	74.5	6.6	729	4	US-09-391-922-29	Sequence 2, Appl	Sequence 29, Appl
22	73.5	6.5	1040	4	US-09-134-001C-5365	Sequence 29, Appl	Sequence 29, Appl
23	73	6.4	243	4	US-09-134-001C-2961	Sequence 2961, Appl	Sequence 2961, Appl
24	73	6.4	1495	4	US-08-162-467B-12	Sequence 12, Appl	Sequence 12, Appl
25	72.5	6.4	395	3	US-08-381-825-6	Sequence 6, Appl	Sequence 6, Appl
26	72.5	6.4	395	4	US-09-480-734-6	Sequence 370, App	Sequence 370, App
27	72	6.3	440	4	US-09-071-035-370		

## ALIGNMENTS

RESULT 1  
US-09-134-001C-4608  
; Sequence 4608 Application US/09134001C  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOOCOCCUS EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GNC-007  
; CURRENT APPLICATION NUMBER: US-09/134, 001C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/064, 964  
; PRIOR FILING DATE: 1997-11-08  
; PRIOR APPLICATION NUMBER: US 60/055,779  
; PRIOR FILING DATE: 1997-08-14  
; NUMBER OF SEQ ID NOS: 5674  
; LENGTH: 224  
; TYPE: PRT  
; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4608

APPLICANT: ALCOSHIN, VLADIMIR VENIAMIOVICH  
; APPLICANT: BELAREOVA, ALL VALENTINOVNA  
; TITLE OF INVENTION: DNA CODING FOR PROTEIN WHICH CONFFERS ON BACTERIUM  
; TITLE OF INVENTION: ESCHERICHIA COLI RESISTANCE TO L0-HOMOSERINE AND METHOD  
; FILE REFERENCE: 0010-1039-0  
; CURRENT APPLICATION NUMBER: US/09/396,357  
; CURRENT FILING DATE: 1999-09-15  
; EARLIER APPLICATION NUMBER: RU98118425  
; EARLIER FILING DATE: 1998-10-13  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 2  
; LENGTH: 205  
; TYPE: PRT : Escherichia coli  
; ORGANISM: Escherichia coli  
; US-09-396-357-2

Query Match Score 11.1%; Best Local Similarity 21.9%; Pred. No. 2, 3e-06; Gaps 6; Matches 48; Conservative 48; Missmatches 94; Indels 15; Gaps 6;

12 ITMDFLHAYLTGVLEVITFENDGANLFVYVQTSLSASGRRA-GVLTGIGVALGDAFSGL 70  
Db 1 MTLKWWATLT--SIIILTSPSGAINTMTSLNHXPAGSYCWAASDRGDSYCAGW 57

RESULT 4  
5474933-4

QY 71 GLPGLATLITQCEETFSLIRIVGAYLIMFAWMSMRSTPONSTLOOPISAPWYVPEFR 130  
Db 58 R--GWTGFLRSRVTAFEVILKWAAYLWLGQWRANGAIDLKSLASTOSRRH--LFQR 113

QY 131 GLITDLSNQTVLFETISFISVTLNAAETPTWARIWVFLSQAFSPAVR 190  
Db 114 AVFVNLTNPKSIVTLLAELPQFIMPQQP--QLMQIYVLGVTRIVVDIVMIGYATLQR 170

QY 191 RAY---GRMQVASRVIGAI 207  
Db 171 IALWTKGPKOMKALKIKFGSL 191

RESULT 3  
US-08-476-254-7

Sequence 7, Application US/08476254  
; PATENT NO. 584651  
; GENERAL INFORMATION:  
; APPLICANT: WEINER, RONALD M.  
; APPLICANT: FUQUA, WILLIAM C.  
; TITLE OF INVENTION: MARINE MELA GENE  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: WATSON COLE STEVENS DAVIS, P.L.L.C.  
; STREET: 1400 K STREET, NW  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-2477  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/476,254  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: POULOS, III, JAMES A.  
; REGISTRATION NUMBER: 31,714  
; REFERENCE/DOCKET NUMBER: JAP30319C  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202 628-0088  
; TELEFAX: 202 628-8034  
; INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:  
; LENGTH: 153 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-476-254-7

Query Match Score 8.2%; Best Local Similarity 23.1%; Pred. No. 0, 0074; Gaps 6; Matches 36; Conservative 34; Missmatches 57; Indels 29; Gaps 6;

45 SLASGRARGVLITGLGVALGD---AFYSGLIGFLGLATLITQCEEFISLIRIVGAYL-- 97  
Db 4 AMTLMGMSIVRTRLMMVNGELAGVLYAIAAATGVASMMLNYPQLFDILKWKVGGLYGYI 63

QY 98 --LWFACSMRR--QSTPQMSTLQQPTSVLVEFRLITDLSNPOTVLFISIFSVT 152  
Db 64 GISMWRAKGKMANLDNTSQISIN-----RALITQGFVTAIANPKGWAQMISLLPPF 114

Query Match Score 153 InAEETPTWARIWVFLSQAFSPAVR 188  
Best Local Similarity 21.9%; Pred. No. 2, 3e-06; Gaps 6; Matches 44; Conservative 48; Missmatches 94; Indels 15; Gaps 6;  
Db 115 ISVDQAIAPOLM-----VLLSI-----MNTEFFSMLA 142

RESULT 5  
5474933-4

Query Match Score 8.2%; Best Local Similarity 23.1%; Pred. No. 0, 0074; Gaps 6; Matches 36; Conservative 34; Missmatches 57; Indels 29; Gaps 6;

QY 45 SLASGRARGVLITGLGVALGD---AFYSGLIGFLGLATLITQCEEFISLIRIVGAYL-- 97  
Db 4 AMTLMGMSIVRTRLMMVNGELAGVLYAIAAATGVASMMLNYPQLFDILKWKVGGLYGYI 63

QY 98 --LWFACSMRR--QSTPQMSTLQQPTSVLVEFRLITDLSNPOTVLFISIFSVT 152  
Db 64 GISMWRAKGKMANLDNTSQISIN-----RALITQGFVTAIANPKGWAQMISLLPPF 114

Query Match Score 153 InAEETPTWARIWVFLSQAFSPAVR 188  
Best Local Similarity 21.9%; Pred. No. 2, 3e-06; Gaps 6; Matches 44; Conservative 48; Missmatches 94; Indels 15; Gaps 6;  
Db 115 ISVDQAIAPOLM-----VLLSI-----MNTEFFSMLA 142

RESULT 5  
US-09-134-001C-4026

Sequence 4026, Application US/09134001C  
; Patent No. 6380370  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCCUS  
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC-007  
; CURRENT APPLICATION NUMBER: US/09/134,001C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/064,964  
; PRIOR FILING DATE: 1997-11-08  
; PRIOR APPLICATION NUMBER: US 60/055,779

PRIOR FILING DATE: 1997-08-14  
; NUMBER OF SEQ ID NOS: 5674  
; SEQ ID NO 4026  
; LENGTH: 173  
; TYPE: PRT  
; ORGANISM: *Staphylococcus epidermidis*  
US-09-134-001C-4026

Query Match 7.9%; Score 90; DB 4; Length 173;  
Best Local Similarity 21.1%; Pred. No. 0.021;  
Matches 35; Conservative 36; Mismatches 71; Indels 24; Gaps 6;

QY 62 LGDAFYSSGLFGLFGATLITOCERFISLIRIVGGAYLLWFANGSMRROSTPQMSTLQ-QP 119  
DB 16 LCDTFLIVTLAIGVLILISMPQLQLFLYIIGFLFLMMIAWSLW---TEKSNIIEEFP 71

QY 120 ISAPWYVFERRGLITDLDSNPOTVLFVFFSISFTLNAAETPTWARMALAWAGIVLASIIMRVF 179  
Db 72 MSARKQILF--AVLSVSLNPHAIMDTVGIGTSVSAV-YDGYDKVFSLATISVSWNFVF 128

QY 180 LSQAFSLAVVRAYGRMR-----VASRYGATIGVFAIRLI 216  
Db 129 LA-----ILGRITGKIDKSGKYIVILNKVSSVIVIYGLILKNI 168

RESULT 6  
US-09-134-001C-399  
Sequence 3929, Application US/09134001C  
Patent No. 6380370  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
FILE REFERENCE: GTC-007  
CURRENT APPLICATION NUMBER: US/09/134, 001C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/064, 964  
PRIOR FILING DATE: 1997-11-08  
PRIOR APPLICATION NUMBER: US 60/055, 779  
PRIOR FILING DATE: 1997-08-14  
NUMBER OF SEQ ID NOS: 5674  
SEQ ID NO 3929  
LENGTH: 206  
TYPE: PRT  
ORGANISM: *Staphylococcus epidermidis*

Query Match 7.2%; Score 82; DB 4; Length 206;  
Best Local Similarity 21.8%; Pred. No. 0.21;  
Matches 47; Conservative 41; Mismatches 62; Indels 66; Gaps 11;

QY 21 YLTYGFLFVTTFNGANLFWVVVQTSLSASGRRAVGLTGGLVALGDAFYSGLGLFRGLATLIT 80  
Db 40 YLTGIMLJAGIS----YVFYDIAASKR---ILTSGMGI----ITSVALLII 82

QY 81 QCERIFSLIRIVGGAYLLWFANGSMRROSTPQMSTLQPIASAPWVFRRGGLTDLNSPQ 140  
Db 83 QL-TFSLI-----SSELSYASLIKELSRTG-VYFKWOMLY-----115

QY 141 TVLRFI----SIFSYTLNAAETPTWARMALAWAGIVLAS-----IIWRVFLSQA 183  
Db 116 TLLVIPCHELYMTVLOKELIKYNLPKWASILVAICSSSLPTYLDNNWTFVFAQF 175

QY 184 FSLPAVRYGRMQRVAASRVIGAIIGVFAIRLIYEG 219  
Db 176 I---LSSLSEYTRRIATTIGQVAVIIL-LIFHG 206

RESULT 7  
US-07-242C-7  
Sequence 7, Application US/07732242C  
Patent No. 5298199  
GENERAL INFORMATION:

APPLICANT: Uozumi, Takeshi; Masaki, Haruhiko;  
APPLICANT: Hidaka, Makoto; Nakamura, Akira;  
APPLICANT: Maeda, Michihisa; Yoneta, Yasuo  
TITLE OF INVENTION: Gene of Ureas  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Frishauf, Holtz, Goodman & Woodward, P.C.  
STREET: 600 Third Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10016-2088  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 0.72mb  
COMPUTER: IBM PC compatible (NEC PC-9801 RX)  
OPERATING SYSTEM: MS DOS  
SOFTWARE: ASCII Form  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/732,242C  
FILING DATE: 19910718  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JPN 2-210178  
FILING DATE: 10-AUG-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Goodman, Herbert  
REGISTRATION NUMBER: 17081  
REFERENCE/DOCKET NUMBER: 910532/HG  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212)972-1400  
TELEFAX: (212)370-1622  
TELEX: 236268  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 222 amino acids  
TYPE: AMINO ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-07-732-242C-7

Query Match 7.1%; Score 81; DB 1; Length 222;  
Best Local Similarity 22.0%; Pred. No. 0.3;  
Matches 51; Conservative 37; Mismatches 90; Indels 54; Gaps 12;

QY 14 MDPLHAYVLTVGLFVITFFNPGANLFWVVVQTSLASGRRAVGLTGGLVALGDAFYSGLGL 72  
Db 21 MEPDPMVIAST-----IVCQSKKLWRSLSAGVWIG-----HTSTLLI 59

QY 73 FGLATLITQ--CEEIFSLIRIVGGAYLLWFANGSMRROSTPQMSTLQPIASAPWV 126  
Db 60 FGATIILMKKISQEWMSLFEFLVGLVFGISALSILKTKTHEHSHERLHLHTDHP1Y 119

QY 127 FFRRLGLTDLSNPOTVLFVFSISF-----VTLNAEPTWARM----AWAGIVYL 172  
Db 120 Y-KGI----PVVKSLFQIGTHLAGSAMVLLMTVEKAWEGGLYLFQGAGTVLG 171

QY 173 SIIWRVFLSQAFSLPAVRYGRMQRVAASRVIGAIIGVFAIRLIYEGVYQ 223  
Db 172 MLSFTTGLIPFTLSA-RKI--RHNIFIQTGFISTVFGGHYHMNLGVDR 220

RESULT 8  
US-09-351-224E-8  
Sequence 8, Application US/09351224E  
Patent No. 6388171  
GENERAL INFORMATION:  
APPLICANT: Duvick, Jon  
APPLICANT: Maddox, Joyce  
APPLICANT: William, Jacob  
APPLICANT: Folkerts, Otto  
APPLICANT: Crasta, Oswald R.  
TITLE OF INVENTION: Compositions and Methods for Fumonisin

; TITLE OF INVENTION: Detoxification  
 ; FILE REFERENCE: 5718-111  
 ; CURRENT APPLICATION NUMBER: US/09/351,224E  
 ; CURRENT FILING DATE: 1999-07-12  
 ; NUMBER OF SEQ ID NOS: 11  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 8  
 ; LENGTH: 525  
 ; TYPE: PRT  
 ; ORGANISM: Exophiala spinifera  
 ; US-09-351-224E-8

Query Match 7.0%; Score 79.5; DB 4; Length 525;  
 Best Local Similarity 23.8%; Pred. No. 1.4; Gaps 8;  
 Matches 48; Conservative 35; Missmatches 80; Indels 39; Gaps 8;

Qy 22 LTVGLFVITFF----NPGA-NLFVVVQTSLASGRGAVLTLGVVALDGFVSGGLFGF 74  
 Db 201 LTIAFLVFSIATLARSNPKAPNSQWTAWSNYTGWSDGVCFLIG--LSTSCEMFGLDA 258

Qy 75 LATLTQCBEIFSLI-RIVGGAYLWFAWCMSMRQSTPOMSTLQQPIASAPWYFFFRGLI 133  
 Db 259 AMHLAECTDAARTVPKAVSALIIGF-CT-----NPFYTAFLYG-I 299

Qy 134 TDLSPOTVLFISFTSISVTLNAETPTWARMAGIVLASICIIWRVLSQAFSIPAVRAY 193  
 Db 300 TDLDLSSILSSAGYTFETMPSQLRSLSFTAVLSCCGIVMA-----FFANAVQFTA 349

Qy 194 GRMORVASRVIGAIGVFAFLR 215  
 Db 350 SRLTWSSFARDNLGYFSTHLERI 371

RESULT 9  
 US-09-103-754A-5

Sequence 5, Application US/09103754A  
 Patent No. 6344548

GENERAL INFORMATION:  
 APPLICANT: Farese, Robert  
 APPLICANT: Cases, Sylvaine  
 APPLICANT: Smith, Steven  
 APPLICANT: Erickson, Sandra  
 TITLE OF INVENTION: Diacylglycerol O-acyltran  
 NUMBER OF INVENTION: sferase  
 NUMBER OF SEQUENCES: 6  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Bozicevic & Reed  
 STREET: 285 Hamilton Avenue, Suite 200  
 CITY: Palo Alto  
 STATE: CA  
 COUNTRY: USA  
 ZTP: 94301

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/103,754A  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Field, Bret E  
 REGISTRATION NUMBER:  
 REFILE/DOCKET NUMBER: 6510-105P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 650 327 3400  
 TELEFAX: 650 327 3231  
 INFORMATION FOR SEQ ID NO: 5:

; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 498 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-103-754A-5

Query Match 6.8%; Score 77.5; DB 4; Length 498;  
 Best Local Similarity 22.0%; Pred. No. 2.1;  
 Matches 42; Conservative 28; Missmatches 62; Indels 59; Gaps 9;

Qy 2 MQLVHLFMDETIDPLHAYLTGLFVITFFNPGANLTVVQTSLASG--IRRAGVLTG- 57  
 Db 127 IQVVSLEFKDPYSWPACYLIASIIVYAAFPQ-----IEKRLAVCALEONGLLHV 178

Qy 58 LGVALDGFYSGLGLFGLATLITQCEEIFSLIRIVGGAYLWF-----AWCSMR 107  
 Db 179 VNLATIICPAVAL-LVESTIPVGSYFAL---ASYSIMLKLYSKRDVNLCRQR 231

Qy 108 QSPQMS-----LGQPIASAP-----WYVEFRLGLTDLSNPOT----- 141  
 Db 232 VAKAVSGRKVSSAAQAVSXPDNLYFIRPLCYELNFPRSPRIRKRFLR 291

Qy 142 ----VLEFTSI 148  
 Db 292 RYLEMELFTQI 302

RESULT 10  
 US-09-134-001C-4857

Sequence 4857, Application US/09134001C  
 Patent No. 63801370

GENERAL INFORMATION:  
 APPLICANT: Lynn Doucette-Stamm et al  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
 FILE REFERENCE: GTC-007  
 CURRENT APPLICATION NUMBER: US/09/134,001C  
 CURRENT FILING DATE: 1998-08-13  
 PRIOR APPLICATION NUMBER: US 60/064,964  
 PRIOR FILING DATE: 1997-11-08  
 PRIOR APPLICATION NUMBER: US 60/055,779  
 PRIOR FILING DATE: 1997-08-14  
 NUMBER OF SEQ ID NOS: 5674  
 SEQ ID NO: 457  
 TYPE: PRT  
 LENGTH: 348  
 ORGANISM: Staphylococcus epidermidis

Query Match 6.7%; Score 75.5; DB 4; Length 348;  
 Best Local Similarity 19.5%; Pred. No. 2.2;  
 Matches 43; Conservative 44; Missmatches 78; Indels 55; Gaps 9;

Qy 2 MQLVHLFMDETIDPLHAYLTGLFVITFFNPGANLTVVQTSLASG--ASGRAGVLTGIG 59  
 Db 90 LATAGLNNQAITANPLAQFQ-----IFGVNAGASFVIVLTVLIPSIGSYSTILAIIW 142

Qy 60 VALGDAFYSGLGLFGLATLITQCEEIFSL-IRIVGGAYLWFACWSMRQSTPOMSTLQ 118  
 Db 143 AFLGG-----FTVTLSGSTRSITPIKLAGMATHLF-----SSMTQ 181

Qy 119 PISAPWYFFRRGLTIDLSNPQVLFIT-----SISSVTLNAETPWARLMAGIVLASIIW 176  
 Db 182 GI-----ILNEDSDNTVFMWLGSLGI-----KWOQILIFILLPEULLAFV 223

Qy 177 RVFLSQAFSL-----PAVERAYGRNQYASRVIGAIIGVFA 212  
 Db 224 TIFMGRQLTILELGDIARGLQRTIEVRMIGILVVLA 263

RESULT 11

US-07-879-617A-11  
 Sequence 11, Application US/07879617A  
 Patent No. 5,580,775  
 GENERAL INFORMATION:  
     APPLICANT: Fremeau, Jr., Robert T.  
     APPLICANT: Caron, Marc G.  
     APPLICANT: Blakey, Randy D.  
     TITLE OF INVENTION: A High Affinity L-Proline Transporter  
     NUMBER OF SEQUENCES: 13  
 CORRESPONDENCE ADDRESS:  
     ADDRESSEE: Kilpatrick & Cody  
     STREET: 1100 Peachtree Street, Suite 2800  
     CITY: Atlanta  
     STATE: Georgia  
     COUNTRY: U.S.  
     ZIP: 30309  
 COMPUTER READABLE FORM:  
     MEDIUM TYPE: Floppy disk  
     COMPUTER: IBM PC compatible  
     OPERATING SYSTEM: PC-DOS/MS-DOS  
     SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
     APPLICATION NUMBER: US/07/879,617A  
     FILING DATE: 19920501  
     CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
     NAME: Pabst, Patrea L.  
     REGISTRATION NUMBER: 31,284  
     REFERENCE/DOCKET NUMBER: EMU109  
 TELECOMMUNICATION INFORMATION:  
     TELEPHONE: 404-815-6508  
     TELEFAX: 404-815-6555  
 INFORMATION FOR SEQ ID NO: 11:  
     SEQUENCE CHARACTERISTICS:  
         LENGTH: 617 amino acids  
         REFERENCE: EMU109  
         TYPE: AMINO ACID  
         STRANDEDNESS: single  
         TOPOLOGY: linear  
         MOLECULE TYPE: protein  
         HYPOTHETICAL: NO  
         ANTI-SENSE: NO  
         FRAGMENT TYPE: N-terminal  
         ORIGINAL SOURCE:  
         ORGANISM: Homo sapiens  
         TISSUE TYPE: Brain -norepinephrine transporter  
 FEATURE:  
     NAME/KEY: Active-site  
     LOCATION: 95..96  
     OTHER INFORMATION: /note= "Leucine zipper motif"  
 FEATURE:  
     NAME/KEY: Active-site  
     LOCATION: 102..103  
     OTHER INFORMATION: /note= "Leucine zipper motif"  
 FEATURE:  
     NAME/KEY: Active-site  
     LOCATION: 116..117  
     OTHER INFORMATION: /note= "Leucine zipper motif"  
 US-07-879-617A-11  
 Query Match 6.7%; Score 75.5; DB 1; Length 617  
 Best Local Similarity 25.0%; Pred. No. 4.8;  
 Matches 50; Conservative 29; Mismatches 76; Indels  
 Qy 30 TFFPDPGANLFFFVYQTSLASGRRAGVLTGIGVALGDAF----YSGLGLFCG  
 Db 402 TWF--AVVFVMLALGIDSSMGMEAVTGLADDFQVLRKHLFTFG  
 Qy 85 IFSLRLTYGGAYLWFAANGSSMRROSTPQMSTLQQPISAWY-----  
 Qy

RESULT 14

Qy 175 IWRVFLSQAFSLPAVRAYG 194  
Sequence 11, Application US/08753985  
Patent No. 5759788

Db 574 IYK-FLSTQGSL-WERLAYG 591

GENERAL INFORMATION:

APPLICANT: Fremau, Jr., Robert T.  
CARON, Marc G.

APPLICANT: Blaizey, Randy D.

TITLE OF INVENTION: A High Affinity L-Proline Transporter

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kilpatrick & Cody  
STREET: 1100 Peachtree Street, Suite 2800  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: U.S.  
ZIP: 30309

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/753,985  
FILING DATE: 03-DEC-1996  
CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/879617  
FILING DATE: 01-MAY-1992  
ATTORNEY/AGENT INFORMATION:

NAME: Pabst, Pareea L.  
REGISTRATION NUMBER: 31,284  
REFERENCE/DOCKET NUMBER: BMU109

TELECOMMUNICATION INFORMATION:

TELEPHONE: 404-815-6508  
TELEFAX: 404-815-6555

SEQUENCE FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:  
ANTI-SENSE: NO  
LENGTH: 617 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens

TISSUE TYPE: Brain -norepinephrine transporter

FEATURE:  
NAME/KEY: Active-site  
LOCATION: 95..96  
OTHER INFORMATION: /note= "Leucine zipper motif"

FEATURE:  
NAME/KEY: Active-site  
LOCATION: 102..103  
OTHER INFORMATION: /note= "Leucine zipper motif"

FEATURE:  
NAME/KEY: Active-site  
LOCATION: 116..117  
OTHER INFORMATION: /note= "Leucine zipper motif"

FEATURE:  
NAME/KEY: Active-site  
LOCATION: 109..110  
OTHER INFORMATION: /note= "Leucine zipper motif"

FEATURE:  
NAME/KEY: Active-site  
LOCATION: 116..117  
OTHER INFORMATION: /note= "Leucine zipper motif"

US-08-753-985-11

RESULT 15  
5-09-084-813-3  
Sequence 3 , Application US/09084813  
Patent No. 6127131

GENERAL INFORMATION:

APPLICANT: Smith, Kelli  
APPLICANT: Borden, Laurence A.  
APPLICANT: Branchek, Theresa  
APPLICANT: Hartig, Paul R.  
APPLICANT: Weisshank, Richard L.

TITLE OF INVENTION: DNA ENCODING A GLYCINE TRANSPORTER AND USES  
TITLE OF INVENTION: THEREOF

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.24

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/084,813  
FILING DATE: 26-MAY-1998  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: White, John P.  
REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 1795/39875-AZ-PCT-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 278-0400  
TELEFAX: (212) 391-0525

SEQUENCE FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:  
LENGTH: 617 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

HYPOTHETICAL: N  
FRAGMENT TYPE: internal  
ORIGINAL SOURCE:  
ORGANISM: HUMAN NORADRENALINE TRANSPORTER

Query Match      6.7%; Score 75.5; DB 3; Length 617;  
 Best Local Similarity 25.0%; Pred. No. 4.8;  
 Matches 50; Conservative 29; Mismatches 76; Indels 45; Gaps 12  
 30 TFFNPNGANLFFVYYOTSLASGRRAYLTGIGVALGDAF-----YSSIGLGFIATLITOCEE 84

result	No.	Score	Query Match	Length	DB ID	Description	Database :
1	217	19.1	226	11	US-09-738-626-3665	Sequence 3665, Ap	Published Application AA.*
2	179	15.8	207	11	US-09-738-626-6418	Sequence 6418, Ap	1: /cgns2_6/ptodata/1/pubpaas/US01_NEW_PUB_pep:*
3	175	15.4	217	15	US-10-156-761-10918	Sequence 10918, A	2: /cgns2_6/ptodata/1/pubpaas/US02_PCTC_NEW_PUB_pep:*
4	168	14.8	205	15	US-10-156-761-11297	Sequence 11297, A	3: /cgns2_6/ptodata/1/pubpaas/US03_US06_PUBCOMB_pep:*
5	166	14.6	223	11	US-09-738-626-6070	Sequence 6070, Ap	4: /cgns2_6/ptodata/1/pubpaas/US04_NEW_PUB_pep:*
6	166	14.6	223	12	US-09-746-660A-14	Sequence 6070, Ap	5: /cgns2_6/ptodata/1/pubpaas/US05_NEW_PUB_pep:*
7	140.5	12.4	224	15	US-10-156-761-7796	Sequence 7796, Ap	6: /cgns2_6/ptodata/1/pubpaas/US06_NEW_PUB_pep:*
8	126.5	11.1	205	10	US-09-922-395-2	Sequence 2, Appli	7: /cgns2_6/ptodata/1/pubpaas/US07_NEW_PUB_pep:*
9	126.5	11.1	205	11	US-09-847-392-2	Sequence 2, Appli	8: /cgns2_6/ptodata/1/pubpaas/US08_NEW_PUB_pep:*
10	114	10.0	203	15	US-10-156-761-8659	Sequence 8659, Ap	9: /cgns2_6/ptodata/1/pubpaas/US09_NEW_PUB_pep:*
11	108.5	9.6	210	15	US-10-156-761-14994	Sequence 14994, A	10: /cgns2_6/ptodata/1/pubpaas/US10_NEW_PUB_pep:*
12	108	9.5	227	15	US-10-264-104-5	Sequence 5, Appli	11: /cgns2_6/ptodata/1/pubpaas/US11_NEW_PUB_pep:*
13	92	8.1	233	12	US-09-746-660A-52	Sequence 52, Appli	12: /cgns2_6/ptodata/1/pubpaas/US12_NEW_PUB_pep:*
14	92	8.1	233	15	US-10-196-232-25	Sequence 25, Appli	13: /cgns2_6/ptodata/1/pubpaas/US13_NEW_PUB_pep:*
15	92	8.1	236	11	US-09-728-626-6955	Sequence 6955, Ap	14: /cgns2_6/ptodata/1/pubpaas/US14_NEW_PUB_pep:*
16	92	8.1	236	15	US-10-166-142-8	Sequence 8, Appli	15: /cgns2_6/ptodata/1/pubpaas/US15_NEW_PUB_pep:*

RESULT 2  
 ; Sequence 6418, Application US/097386626  
 ; Publication No. US20030119018A1

; GENERAL INFORMATION:  
 ; APPLICANT: OMURA, SATOSHI  
 ; APPLICANT: IKEDA, HARU  
 ; APPLICANT: ISHIKAWA, JUN  
 ; APPLICANT: HORIKAWA, HIROSHI  
 ; APPLICANT: SHIBA, TADAYOSHI  
 ; APPLICANT: SAKAKI, YOSHII  
 ; APPLICANT: HATTORI, MASAHIRA  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-262  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: JP 2001-204089  
 ; PRIOR FILING DATE: 2001-05-30  
 ; PRIORITY NUMBER: JP 2001-272697  
 ; SEQ ID NO: 10918  
 ; LENGTH: 217  
 ; TYPE: PRT  
 ; ORGANISM: Streptomyces avermitilis  
 ; US-10-156-761-10918

Query Match 15.4%; Score 175; DB 15; Length 217;  
 Best Local Similarity 27.9%; Pred. No. 1.e-10;  
 Matches 60; Conservative 34; Mismatches 97; Indels 24; Gaps 8;

Qy 21 YLTIVGLFVITFFPFGNANLFLVVVOTSLASSRRAGVLTGUGVALGDAFYSSLGLFLATLT 80  
 Db 10 YL AGVLVLVL PGPNSLVLYLSVAARGVRAVGRYTRAAGVWCGDTVLMTLSAGVASLIQ 67

Qy 81 QCEEIFSLIRIVGGAYLWFAWCMSR -----ROSTPOMSTLQOPIS----APWYVFER 129  
 Db 68 ANAIFGTVKYAAGYLWFLGMLRAWMETTRDAAARAPVAPVAGER-----FR 123

Qy 130 RGLITDLSPQTLYLFISIF-SVTLNNETPHARLMWAGVILASIMWRVFSQAFSLP 187  
 Db 124 RAFTVSLENPKAFFEAVFFQVDPGAYAPALSFVVLGAFLASFLYLTAL--IFSGT 181

Qy 188 AVERAYGMORV -- ASRVIGALIGVFALRLIVEG 219  
 Db 182 KLAFAFRRKRLSAGATTAAGGALFLGFAVKLTLAG 216

RESULT 4  
 ; Sequence 11297, Application US/10156761  
 ; Publication No. US20030119018A1

; GENERAL INFORMATION:  
 ; APPLICANT: OMURA, SATOSHI  
 ; APPLICANT: IKEDA, HARU  
 ; APPLICANT: ISHIKAWA, JUN  
 ; APPLICANT: HORIKAWA, HIROSHI  
 ; APPLICANT: SHIBA, TADAYOSHI  
 ; APPLICANT: SAKAKI, YOSHII  
 ; APPLICANT: HATTORI, MASAHIRA  
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
 ; FILE REFERENCE: 249-262  
 ; CURRENT FILING DATE: 2002-05-29  
 ; PRIOR APPLICATION NUMBER: JP 2001-204089  
 ; PRIOR FILING DATE: 2001-05-30  
 ; PRIORITY NUMBER: JP 2001-272697  
 ; SEQ ID NO: 11297  
 ; LENGTH: 205  
 ; TYPE: PRT  
 ; ORGANISM: Streptomyces avermitilis  
 ; US-10-156-761-11297

Query Match 14.8%; Score 168; DB 15; Length 205;  
 Best Local Similarity 25.9%; Pred. No. 6.e-10;

RESULT 3  
 ; Sequence 10918, Application US/10156761  
 ; Publication No. US20030119018A1

Matches	Conservative	39;	Mismatches	90;	Indels	20;	Caps	8;
Qy	19	AVYLTVGLFVTFENPQANLEVVVQITSLASGRRAYGLTGLGVALGDAFYSSGLGLPGLATL	78					
	:   :	:	:     -	:   :	:   :	:   :		
Db	7	AAFLATDILLY- -FPGADAYAAGLDRD -RSVYPAVAGLVAGTAGYTULLAVASLUVVI	62					
Qy	79	ITQCCEBIFSLLIRVGAYLLEWANGCMRROSTPQMTELQQPIASAPPYVFERRGLLTIDLSN	138					
	:   :   :	:	:     :	:	:   :	:   :		
Db	63	VAGSSSLITALTIVGAYLTLWGLWSVYLARPQASA-EAVAASRPRIVLGAGISL-N	120					
Qy	139	POTVLFELFISFSVTLN-----ETPTKARL-MAWAGIV--LASIWIYFLSQAFSLP	187					
	:     :	:     :	:     :	:     :	:     :	:     :		
Db	121	PKALFLSLEPQFTHPGEWPVVAQTCGLEFTLHMASCVVYLAVSYLARTVLK--ARP	177					
Qy	188	AVRRAYGRMORVASRVIGAI	208					
	:	:	:	:	:	:		
Db	178	TAARAYARVSGTMMIVGGFL	198					

```

RESULT 6
US-09-746-660A-14
; Sequence 14, Application US/09746660A
; Publication No. US20030040804A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kröger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; APPLICANT: Kim, Jun-Won
; APPLICANT: Lee, Heung-Schick
; APPLICANT: Hwang, Byung-Joon
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; METABOLIC PATHWAY PROTEINS
FILE REFERENCE: BGI-121CIP2
CURRENT APPLICATION NUMBER: US/09-746, 660A
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 09/606740
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 09/603124
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 60/142101
PRIOR FILING DATE: 1999-07-02
PRIOR APPLICATION NUMBER: 60/148613
PRIOR FILING DATE: 1999-08-12
PRIOR APPLICATION NUMBER: 60/187970
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: DE 19931420.9
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 125
SOFTWARE: Patentin vers. 2.0
SEQ ID NO 14
LENGTH: 223
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
US-09-746-660A-14

Query Match Score 166; DB 12; Length 223;
Best Local Similarity 26.0%; Pred. No. 1.1e-09;
Matches 56; Conservative 50; Mismatches 83; Indels 2

Qy 26 LFVTTFFNPGANLFFVYVQTSLASGRAGVLTGL-GVALGDAFYSGIGLGFLGFG
|::|:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:|
Db 12 LNLYGLSLSPDPDTFELR--LATRSRAHALAVGAGLVGTGLTVWVLTIVVGAA

Qy 85 FSLIRIVGGAYLLAFACWCMRQQTPQMSTLQQPISAA---PWVV-----
|:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:|
Db 70 IGLIQQLVGGTLYLSFGYKLLRSARELIDARQFRFNADAPIDAVEALG

Qy 132 LITDLSNPQTLYEFFSISFSVTLNAETPTWALMANAVILASITIWRLVFLSCL
|:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:|
Db 130 LATNLSNPKVYMFATLAPPMPAHP--SEVLAFS--IIVAILVQTIVFVIE

Qy 187 PAVRAYGRMRQVRASRVIGAIGVFAFLRILEGVY 221
|:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:|
Db 185 ERVKMLRAGPWFDLLAGTVFLVYGVTLIXEGLT 219

RESULT 7
US-10-156-761-7796
; Sequence 7796, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: YAKAMI, YOSHITAKI
; APPLICANT: HATTORI, MASAHIRA

```

; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; CURRENT FILING DATE: 2002-05-29  
; PRIORITY NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 7796  
; LENGTH: 224  
; TYPE: PRT  
; ORGANISM: Streptomyces avermitilis  
; OS-10-156-761-7796

Query Match 12.4%; Score 140.5; DB 15; Length 224;  
Best Local Similarity 22.4%; Pred. No. 5.6e-07;  
Matches 46; Conservative 38; Mismatches 78; Indels 43; Gaps 6;

Qy 24 VGLFVTTFFPANLNFVYVQTL--ASGRRAAGVLTGVALGDAVYSGLGLFLGLTIT 80  
Db 9 LGVLYVAVVPPDFLVVRSATEEHAKGRA---ALGAGSGLCVHMLAAVGGLIAA 64

Qy 81 QCEEIFSFLIRTYGGAYLLWF --AWCSMRQQ-----STPQMSTLQQPI 120  
Db 65 RSPAVDAAIRLGAAYLVLGVRAVLAARRAERARAAGREAVGGVDDGTDPRTPBEAPA 124

Qy 121 SAPWYVFRRGLITDLSNPOTVLFISFSVTLNAETPTWRLM-----AWAG 168  
Db 125 HGRWRSSFTFOGLTNTVLPKAALFSLTQVFGCGSTSRSQIFFLGTLDIVGYAWFA 184

Qy 169 IVLASITIWRVFLSQAFSLPAYER 193  
Db 185 LYAVAKNLAFLAR----PKVRHGW 205

RESULT 8  
US-09-927-395-2  
; Sequence 2, Application US/09927395

; Patent No. US2002005831A1

; GENERAL INFORMATION:

; APPLICANT: LIVSHITS, VITALY ARKADIEVICH

; APPLICANT: ZAKAREVA, NATALYA PAVLOVNA

; APPLICANT: ALCOSHIN, VLADIMIR VENYAMOVICH

; APPLICANT: BELAREKOVA, ALL VALENTINOVA

; APPLICANT: TOKHAKOVA, IRINA ILYONNA

; TITLE OF INVENTION: DNA CODING FOR PROTEIN WHICH CONTERS ON BACTERIUM

; TITLE OF INVENTION: ESCHERICHIA COLI RESISTANCE TO L0-HOMOSERINE AND METHOD

; TITLE OF INVENTION: FOR PRODUCING L-AMINO ACIDS

; FILE REFERENCE: 0010-1039-0

; CURRENT APPLICATION NUMBER: US/09/927,395

; CURRENT FILING DATE: 2001-08-13

; PRIOR APPLICATION NUMBER: 09/396,357

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: RU98118425

; PRIOR FILING DATE: 1998-10-13

; NUMBER OF SEQ ID NOS: 2

; SOFTWARE: Patentin Ver. 2.1

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

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; ORGANISM: Escherichia coli

; SEQ ID NO 2

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; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; ORGANISM: Escherichia coli

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; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

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; ORGANISM: Escherichia coli

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; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

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; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

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; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

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; ORGANISM: Escherichia coli

; SEQ ID NO 2

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; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

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; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

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; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Escherichia coli

; SEQ ID NO 2

; LENGTH: 205

; TYPE: PRT

TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; CURRENT FILING DATE: 2002-05-29  
; PRIORITY APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIORITY APPLICATION NUMBER: JP 2001-272697  
; PRIORITY FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO: 8659  
; LENGTH: 203  
; TYPE: PRT  
; ORGANISM: Streptomyces avermitilis  
; US-10-156-761-8659

Query Match Score 114; DB 15; Length 203;  
Best Local Similarity 25.0%; Pred. No. 0\_00032;  
Matches 51; Conservative 31; Mismatches 82; Indels 40; Gaps 10;

Qy 32 FNPGANIFVYYQTIS---LASG-RAGSGLTGLGV-ALGDAFYSGLGLFGGLATLITQCEEI 85  
Db 12 FGIGLSLIVAAQNQAFYLROGTRDVLAVYGCICALSDALLTIALGTYGGAVVAVMPRA 71

Qy 86 FSLTRINGGAYLWFAANGSMRR-----OSTPQNSTLQOOPISAPWYVFPRGLTDL 136  
Db 72 LTAVALYGGAFELLYGALAARRVRPAGLRAEGAPEGSR-----RAVLTCL 118

Qy 137 S---NPOTVLFETTSIF-SVTLNAAETPTWRLMAWAGIVYLASIWIWRYELSQAFSLPAVRR 191  
Db 119 ALTWLNPHYLDTFLGSIADRSGLRWI---FGLGAALASLW- -FAAIGFGSRLLGR 173

Qy 192 AYGMORYASRVIGAATGIGYFALR 215  
Db 174 FLARPS- -AWRVLDALVATMLTM 195

RESULT 11  
US-10-156-761-14994  
Sequence 14994, Application US/10156761  
Publication No. US20030119018A1  
GENERAL INFORMATION:  
APPLICANT: OMURA, SATOSHI  
INVENTOR: IKEDA, HARUO  
APPLICANT: ISHIKAWA, JUN  
APPLICANT: HORIKAWA, HIROSHI  
APPLICANT: SHIBA, TADAO SHI  
APPLICANT: SAKAKI, YOSHIO YUKI  
APPLICANT: HATORI, MASASHIRA  
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
FILE REFERENCE: 249-262  
CURRENT APPLICATION NUMBER: US/10/156,761  
CURRENT FILING DATE: 2002-05-29  
PRIORITY APPLICATION NUMBER: JP 2001-204089  
PRIOR FILING DATE: 2001-05-30  
PRIORITY APPLICATION NUMBER: JP 2001-272697  
PRIORITY FILING DATE: 2001-08-02  
NUMBER OF SEQ ID NOS: 15109  
SEQ ID NO: 14994  
LENGTH: 210  
TYPE: PRT  
ORGANISM: Streptomyces avermitilis  
US-10-156-761-14994

Query Match Score 114; DB 15; Length 210;  
Best Local Similarity 25.9%; Pred. No. 0\_0013;  
Matches 50; Conservative 34; Mismatches 92; Indels 17; Gaps 8;

Qy 35 GANIFVYYQTISLASGRAGVLTGIVALGDAFYSGLGLFGGLATLITQCEEISSLIRYGG 94  
Db 20 GAVATYLVSLTARTSLRTGVCAGLVAATDGLYALVAAAGGSSAAAQQPVLYPLRWSG 79

Qy 95 AYLIWF---AWSSMRROSTPONSTLQO---PISAPWVVFPRGLI-TDLSNPQTVLDFI 146

RESULT 12  
US-10-264-104-5  
Sequence 5, Application US/10264104  
Publication No. US2003007748A1  
GENERAL INFORMATION:  
APPLICANT: Curtis, Rory A.J.  
INVENTOR: Millennium Pharmaceuticals, Inc  
TITLE OF INVENTION: Human Transporter Family Member  
FILE REFERENCE: MP10-218PIRM  
CURRENT APPLICATION NUMBER: US/10/264,104  
CURRENT FILING DATE: 2002-10-03  
PRIORITY APPLICATION NUMBER: 60/326,906  
PRIOR FILING DATE: 2001-10-03  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO: 5  
LENGTH: 227  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: consensus  
US-10-264-104-5

Query Match Score 108.5; DB 15; Length 227;  
Best Local Similarity 27.6%; Pred. No. 0\_0016;  
Matches 59; Conservative 26; Mismatches 79; Indels 50; Gaps 13;

Qy 5 VHIFMDEITMDPLHAYVLTVG-----GANIFVYYQTISLASG 49  
Db 17 IYLVLPINF-PL --WLTVPDPPKQESRMFFITFIMSIIWIAANLVDAATSI-G 70

Qy 50 RRAGV-----LTGIGVYLGDAFYS-----GLGLFGLATLITQCEEIFSSLIRYGG 95  
Db 71 STLGISESIVGLTIALGSLPDLIATSYAARGQGDIAVGNYG--SNFNLIVLIGA 128

Qy 96 YLMFAWCMSMRROSTPONSTL---QQPISAPWVVFPRGLIITDISNPQTVLFFSISFVT 152  
Db 129 WLI-APLVYESSASTMHDMVMSQPFKIDWNPFIRDLF-----IVLLYMLMTM 180

Qy 153 LNAEPTVPLWRLMAWAGIVYLASIWIWRYELSQAFSL 186  
Db 181 MOVATMKW-RLNRMVEGIVLL-LIXIVIVFAILL 212

RESULT 13  
US-09-746-660A-52  
Sequence 52, Application US/09746660A  
Publication No. US20030049804A1  
GENERAL INFORMATION:  
APPLICANT: Pompeius, Markus  
INVENTOR: Kroger, Burkhard  
FILE REFERENCE: 249-262  
CURRENT APPLICATION NUMBER: US/09/746660A  
APPLICANT: Pompeius, Markus  
INVENTOR: Schroder, Hartwig  
FILE REFERENCE: 249-262  
APPLICANT: Zelder, Oskar  
INVENTOR: Haberhafer, Gregor  
FILE REFERENCE: 249-262  
APPLICANT: Kim, Jun-Won  
INVENTOR: Lee, Heung-Schick  
FILE REFERENCE: 249-262  
APPLICANT: Hwang, Byung-Joon  
INVENTOR: CORNEOBACTERIUM GLUTAMICUM GENES ENCODING  
FILE REFERENCE: BGI-11CP2  
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS  
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS  
CURRENT APPLICATION NUMBER: US/09/746,660A

CURRENT FILING DATE: 2000-12-22  
; PRIORITY APPLICATION NUMBER: 09/606740  
; PRIORITY FILING DATE: 2000-06-23  
; PRIORITY APPLICATION NUMBER: 09/603124  
; PRIORITY FILING DATE: 2000-06-23  
; PRIORITY APPLICATION NUMBER: 60/141031  
; PRIORITY FILING DATE: 1999-06-25  
; PRIORITY APPLICATION NUMBER: 60/142101  
; PRIORITY FILING DATE: 1999-07-02  
; PRIORITY APPLICATION NUMBER: 60/148613  
; PRIORITY FILING DATE: 1999-08-12  
; PRIORITY APPLICATION NUMBER: 60/187970  
; PRIORITY FILING DATE: 2000-03-09  
; PRIORITY APPLICATION NUMBER: DE 19931420.9  
; PRIORITY FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 125  
; SOFTWARE: PatentIn Vers. 2.0  
; SEQ ID NO: 52  
; LENGTH: 233  
; TYPE: PRT  
; ORGANISM: Corynebacterium glutamicum  
; US-09-746-660A-52

Query Match 8.1%; Score 92; DB 12; Length 233;  
Best Local Similarity 22.9%; Pred. No. 0.081; Indels 48; Gaps 10;  
Matches 54; Conservative 33; Mismatches 101; Delins 48; Gaps 10;

QY 22 LTVGFVTFNPGANLFFFQTSLASGRAGVLTGVAL-GDAFYSGLEGLATLT 80  
; 8 LLGGASLLSIGP-QNVLYIKQ---GIRREGIATVLLVCLISPVLFAGTGVDSLNS 62

QY 81 QCEEFSLIRVGGAYLLWFAWCSMRQST-----PQNSTLQOPIST----- 123  
; 63 AAPIVDIMRWGGIAYLLWFAVMKAKDAMTNKYEAPOQIEETEP-TVDDTPLGGSAVAT 121

QY 124 -----WYVFERRGLITDLSNPOTVL-FFISIFSVTLNAEPTWARLMA 165  
; 122 DTRNRVFRVEVSDKQRVWVKPMILMAIVTLWNPNAYLDAFVFGGV--GAQYGDGTGRWIF 179

QY 166 WAGIVLASTIWRVPLSQAFSLPAVRAYG--RMQRASRVIGATIGVFAIRLIYEG 219  
; 180 AAGAAASLW--FPLVGFGAALSRLSSPKVWRWINVVAVVMTALAIKMLMG 233

RESULT 14  
US-10-196-232-25  
; Sequence 25; Application US/10196232  
; Publication No. US20030113899A1  
; GENERAL INFORMATION:  
; APPLICANT: YAMAGUCHI, MIKKO  
; APPLICANT: ITO, HISAO  
; APPLICANT: GUNDI, YOSHIA  
; APPLICANT: YASUEDA, HISASHI  
; TITLE INVENTION: METHOD FOR PRODUCING L-ARGININE  
; FILE REFERENCE: 225391US0  
; CURRENT APPLICATION NUMBER: US/10/196,232  
; CURRENT FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: JP 2001-224586  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO: 25  
; LENGTH: 233  
; TYPE: PRT  
; ORGANISM: Corynebacterium glutamicum  
; US-10-196-232-25

Query Match 8.1%; Score 92; DB 15; Length 233;  
Best Local Similarity 22.9%; Pred. No. 0.081; Indels 48; Gaps 10;  
Matches 54; Conservative 33; Mismatches 101; Delins 48; Gaps 10;

QY 22 LTVGFVTFNPGANLFFFQTSLASGRAGVLTGVAL-GDAFYSGLEGLATLT 80  
; 11 LLGGASLLSIGP-QNVLYIKQ---GIRREGIATVLLVCLISPVLFAGTGVDSLNS 65

QY 81 QCEEFSLIRVGGAYLLWFAWCSMRQST-----PQNSTLQOPIST----- 123  
; 66 AAPIVDIMRWGGIAYLLWFAVMKAKDAMTNKYEAPOQIEETEP-TVDDTPLGGSAVAT 124

QY 124 -----WYVFERRGLITDLSNPOTVL-FFISIFSVTLNAEPTWARLMA 165  
; 125 DTRNRVFRVEVSDKQRVWVKPMILMAIVTLWNPNAYLDAFVFGGV--GAQYGDGTGRWIF 182

QY 166 WAGIVLASTIWRVPLSQAFSLPAVRAYG--RMQRASRVIGATIGVFAIRLIYEG 219  
; 183 AAGAAASLW--FPLVGFGAALSRLSSPKVWRWINVVAVVMTALAIKMLMG 236

Search completed: July 21, 2003, 08:36:28  
Job time : 23 secs